

A NEW ALOE FROM TANGANYIKA

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(With Plate XXXIII)

Aloe greenwayi Reynolds. Species nova, affinis *A. morogoroensis* Christian, foliis longioribus et latoribus, dentibus brevioribus, bracteis majoribus differt.

Planta acaulescens vel caulibus usque 30 cm. longis. *Folia* rosulata, c. 16, usque 30 cm. longa, 6 cm. lata, patula; *supra* viridula, plana vel leviter canaliculata; *subtus* viridia, copiose maculata, maculis parvis albidis; marginibus dentibus pungentibus deltoideis 2 mm. longis, 5—8 mm. distantibus armata.

Inflorescentia saepe 60 cm. alta, 2—3-ramosa. *Racemi* cylindrico-conici, 10—20 cm. longi, 6 cm. diametro. *Bracteae* ovato-acutae, usque 10 mm. longae, 5 mm. latae, scariosae, albiae, 7—9-nervatae. *Pedicelli* 8—10 mm. longi. *Perianthium* cylindrico-trigonum, luteum vel rubro-aurantiacum, 30 mm. longum, supra ovarium 5—6 mm. diametro; *segmenta exteriora* per 10 mm. libera, obscure 3-nervatae. *Antherae* 1—2 mm. exsertae. *Stigma* demum 3 mm. exsertum.

TANGANYIKA. TANGA PROVINCE, Western Usambaras, Kifungilo, 12 miles east of Lushoto, 5,300 feet, fl. 2 July 1958, Reynolds 8759 (holotype PRE, isotypes K, EA); Coll. Kifungilo, Western Usambaras, cult. Hort. Moreau, Amani, 7 April 1942, Greenway 6452 (EA); Coll. Worlds View, Shume, cult. Hort. Greenway, Amani, 25 Nov. 1946, Greenway 7892 (EA).

Our new species is named after Dr. P. J. Greenway who was formerly Botanist at the East African Agriculture Research Institute, Amani, Tanganyika, and latterly Botanist in Charge of the East African Herbarium, Nairobi, Kenya, who has contributed very considerably to the advancement of botanical knowledge of East Africa.

A. greenwayi appears to be nearest allied to *A. morogoroensis* Christian from which it differs in being a larger plant with a stem up to 50 cm. long (longer when hanging down cliff faces), and in having larger more spreading leaves forming open rosettes, shorter more crowded marginal teeth, much larger bracts, and a taller inflorescence.

A. greenwayi grows in numbers on cliff edges of the south-eastern face of the Western Usambaras, and is also found at Worlds View near Shume, at Kifungilo Mission 12 miles east of Lushoto, at Gare, while a weaker form

occurs on rock faces two miles west of Soni on the road down the pass to Mombo.

The leaves of *A. greenwayi* are always flushed with reddish-bronze, while flower colours range from lemon-yellow through primrose-yellow to reddish-orange.

DESCRIPTION

Plants solitary or in small groups, acaulescent or with stem up to 30 cm. long—longer when hanging down rock faces.

Leaves about 16, densely rosulate, up to 30 cm. long, 6 cm. broad, spreading and forming rather open rosettes; *upper surface* flat to slightly canaliculate, dull green flushed reddish-bronze, usually with a few scattered very pale green spots; *lower surface* convex, paler green, copiously spotted throughout with numerous very small pale green elongated spots; *margins* armed with small deltoid pungent teeth about 2 mm. long, 5—8 mm. apart.

Inflorescence about 60 cm. high, mostly 1—2-branched from about the middle.

Racemes cylindric-acuminate, the terminal sometimes 20 cm. long, but usually about 15 cm. long with the lateral a little shorter, 5—6 cm. broad, rather densely flowered.

Bracts ovate-acute to lanceolate-acute, about 10 mm. long, 4—5 mm. broad, thin, scarious, dirty-white, rather brittle, 7—9-nerved.

Pedicels 8—10 mm. long, sometimes 12 mm. after anthesis.

Perianth reddish-orange to yellow, cylindric-trigonous, 30 mm. long, basally obtuse and slightly stipitate, 5—6 mm. diam. across the ovary, thence very slightly narrowed on the underside only, the mouth wide open; *outer segments* free for 10 mm., obscurely 3-nerved, paler at the margins, greenish tipped; *inner segments* broader than the outer and with broad white border, with 3 crowded nerves forming a keel and with more obtuse more spreading apices.

Filaments filiform-flattened, the 3 inner narrower and lengthening before the 3 outer, with their *anthers* in turn exserted 1—2 mm.

Stigma at length exserted 2—3 mm.

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Plants at Kifungilo, 12 miles east of Lushoto, Western Usambaras, Tanganyika, 5,300 feet, fl. 2 July 1958. Height, 80 cm.



Aloe greenwayi Reynolds. Flowers 1/1 from bud to post anthesis stage.

PLATE XXXIII
Aloe greenwayi Reynolds